

FIGURE 1
ADAPTIVE OUTPUT FEEDBACK CONTROL SYSTEM

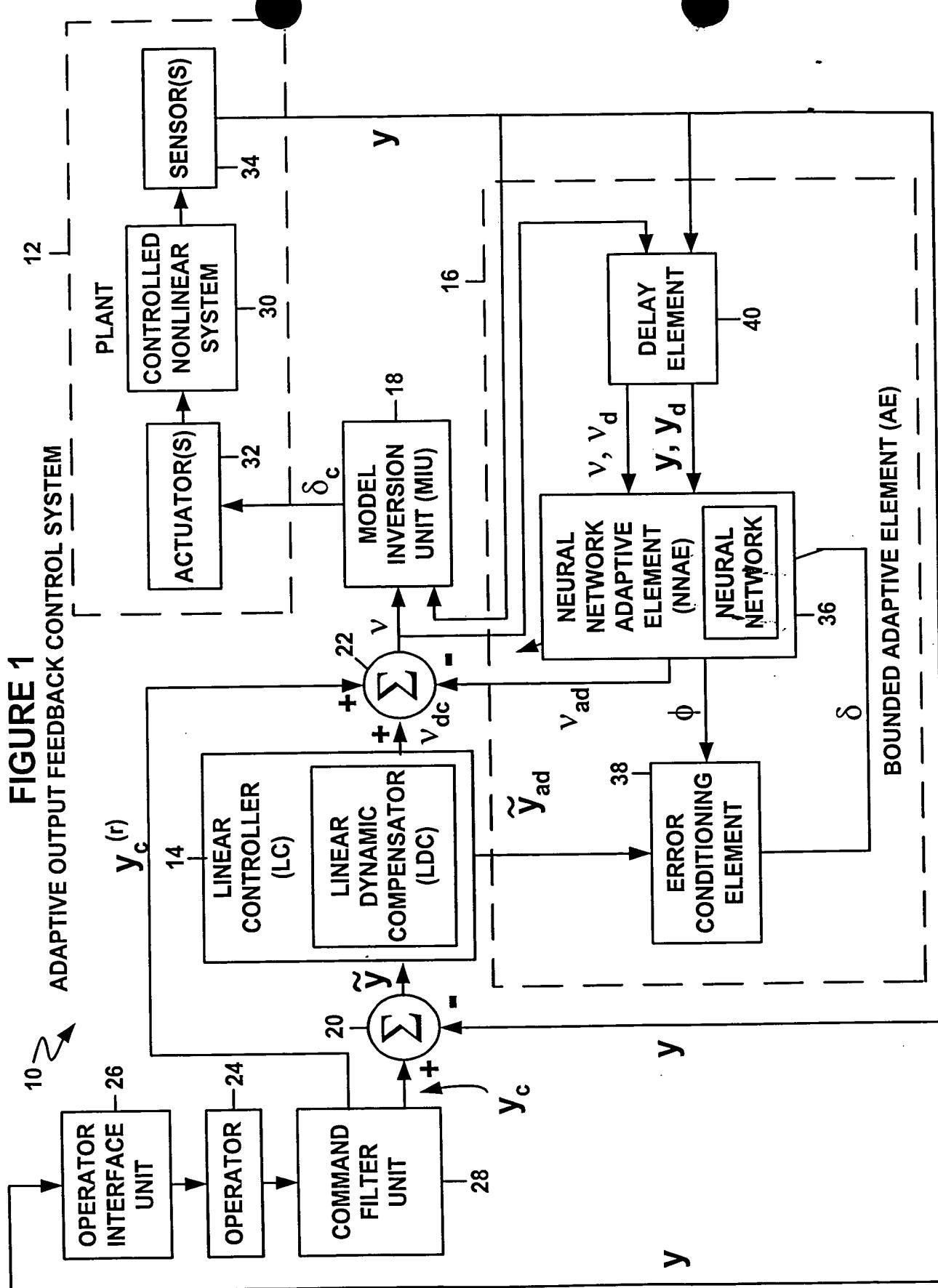


FIGURE 2
Tracking Error Signal Analysis

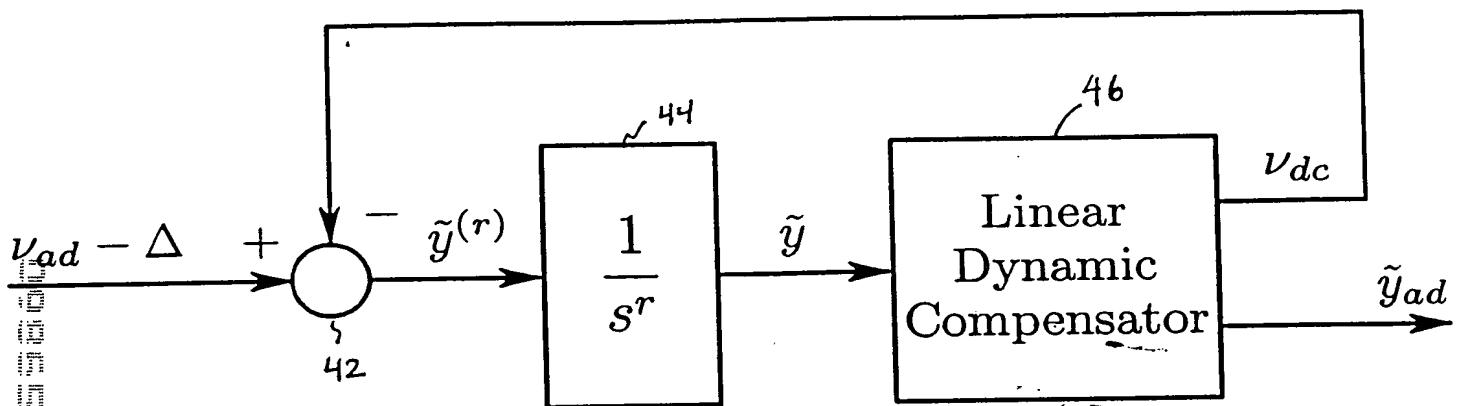
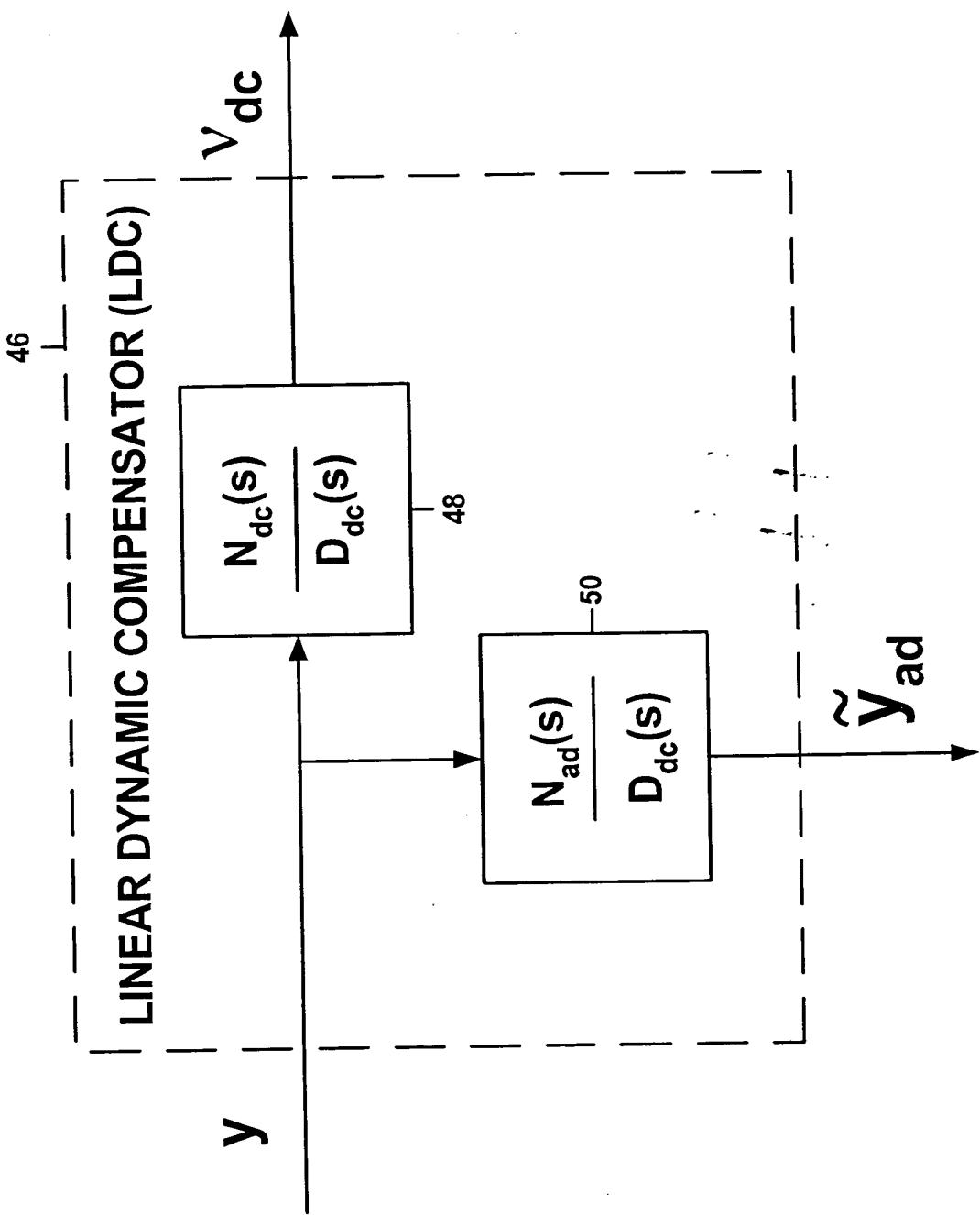
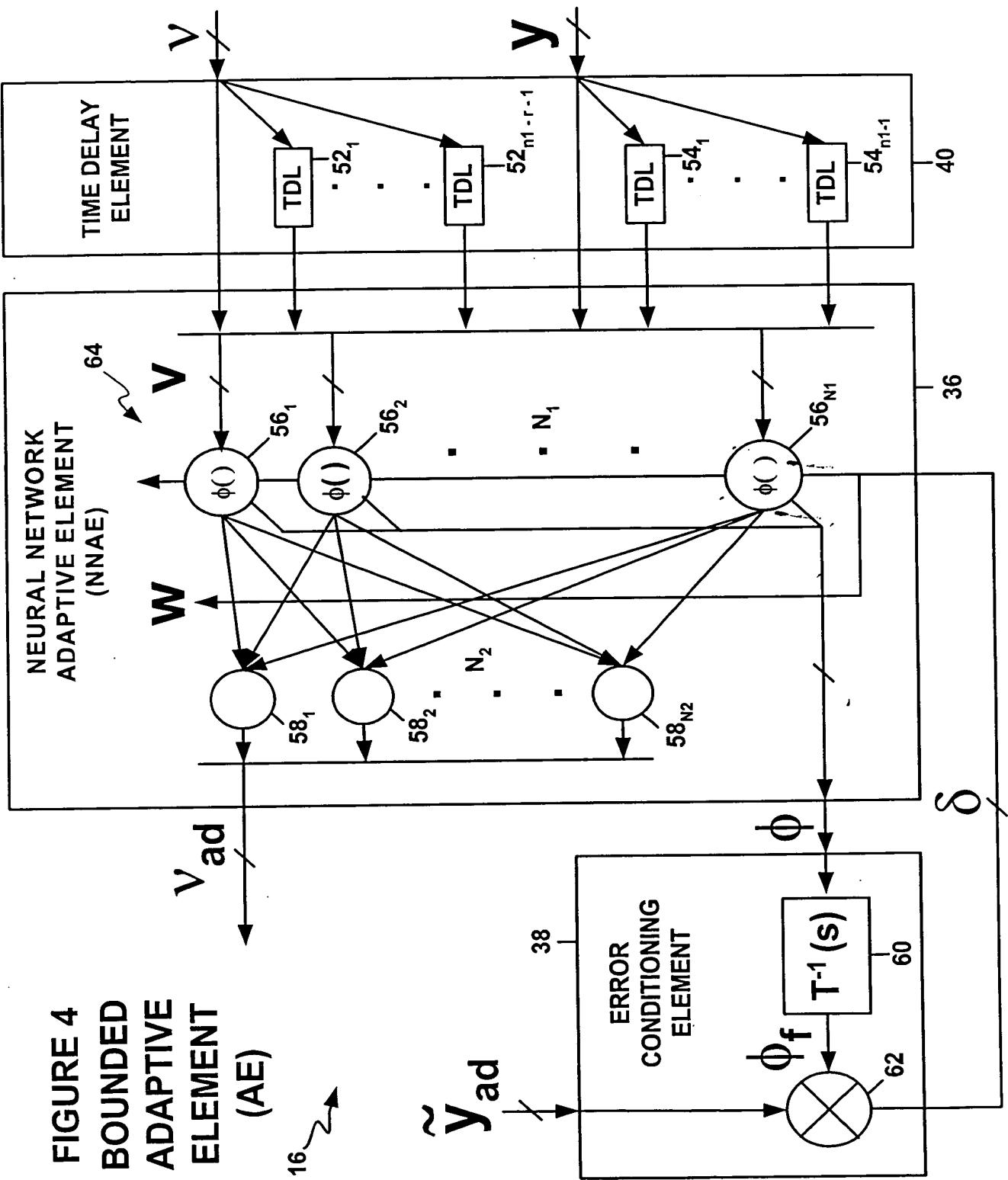


FIGURE 3





"... and can now..." "... and can now..."

FIGURE 5

PROCESSOR-BASED ADAPTIVE CONTROL
SYSTEM USING DIRECT OUTPUT FEEDBACK

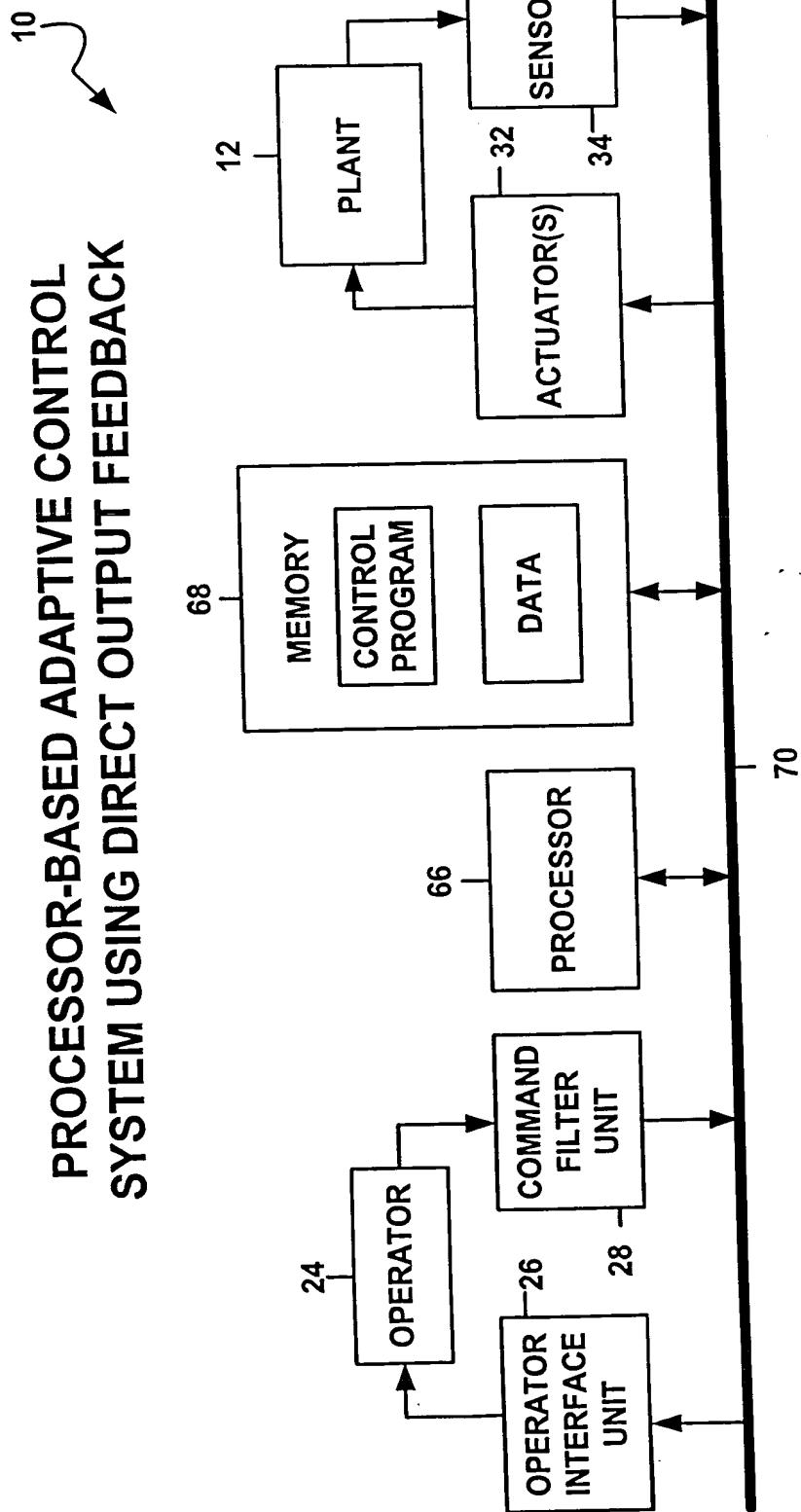


FIGURE 6

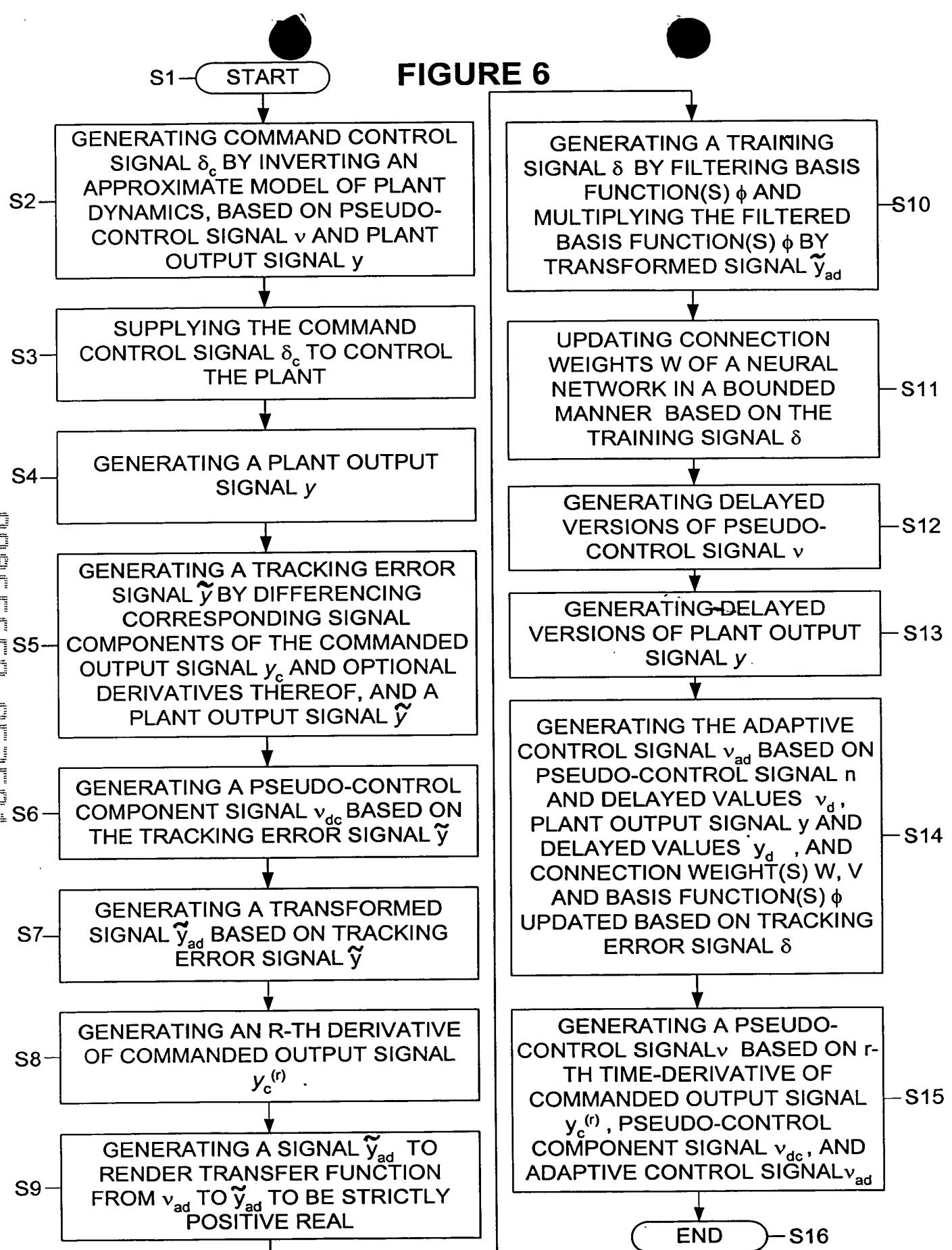
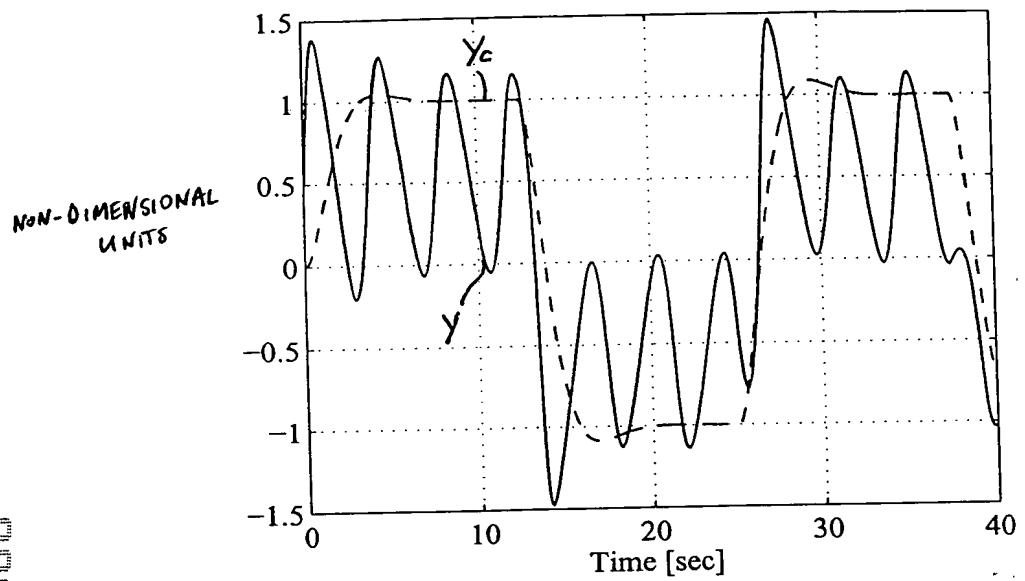
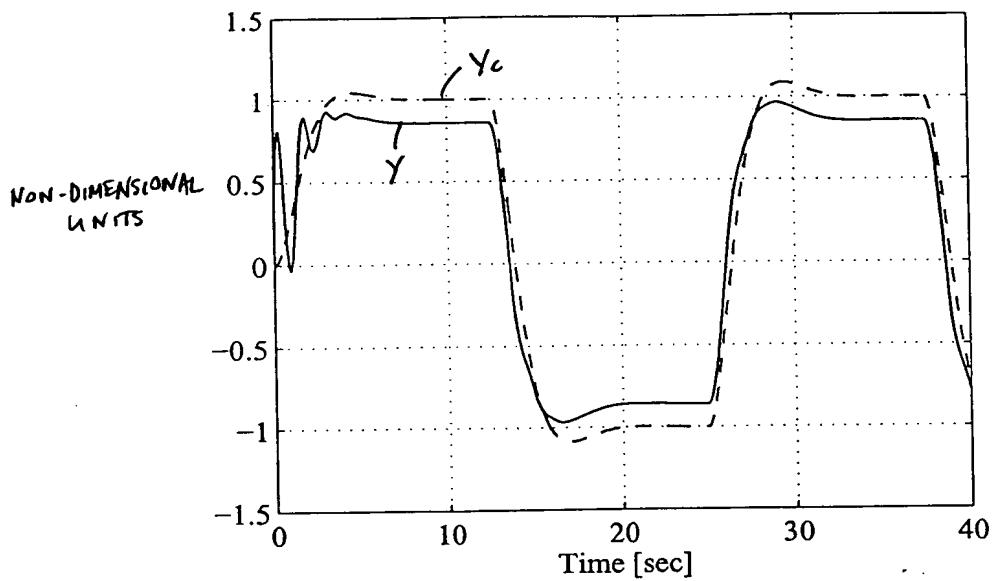


FIGURE 7



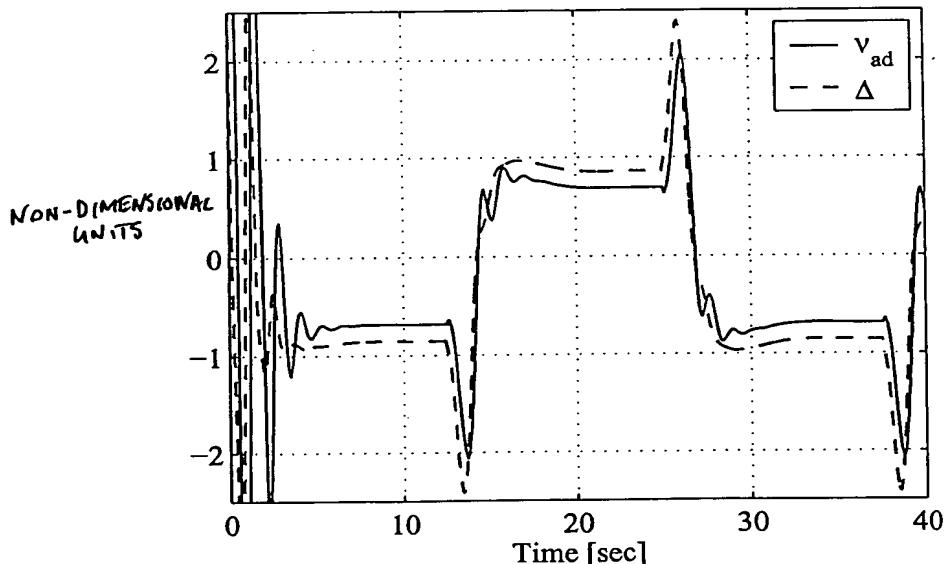
System without unmodelled dynamics: response with linear compensator

FIGURE 8A



(a) System tracking

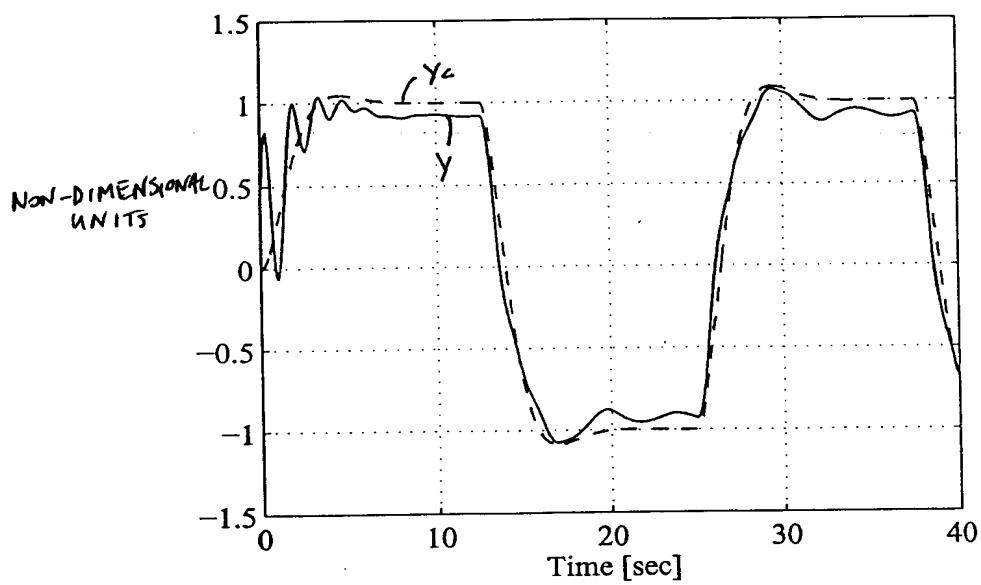
FIGURE 8B



(b) NN output ν_{ad} and inversion error Δ

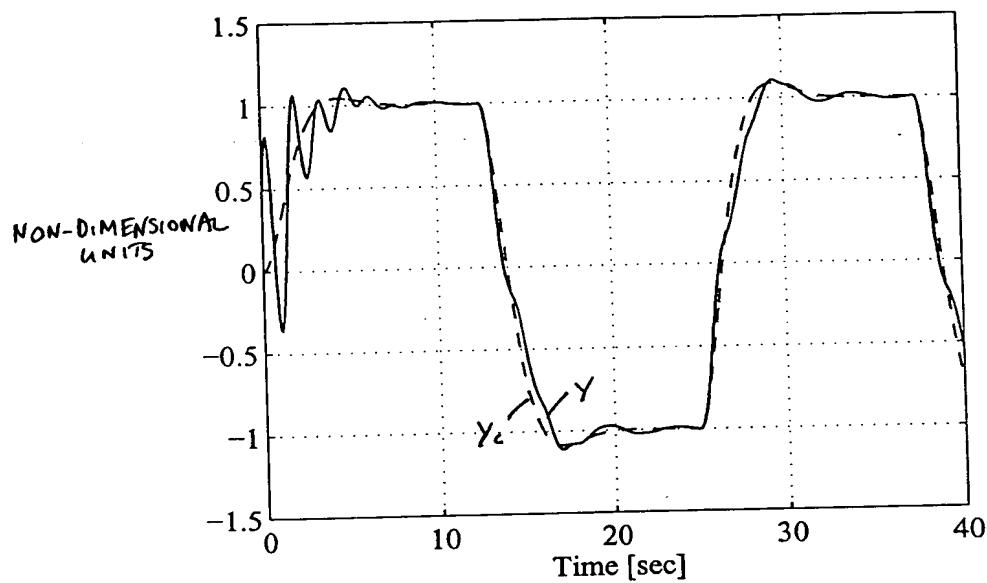
System without unmodelled dynamics and NN controller

FIGURE 9



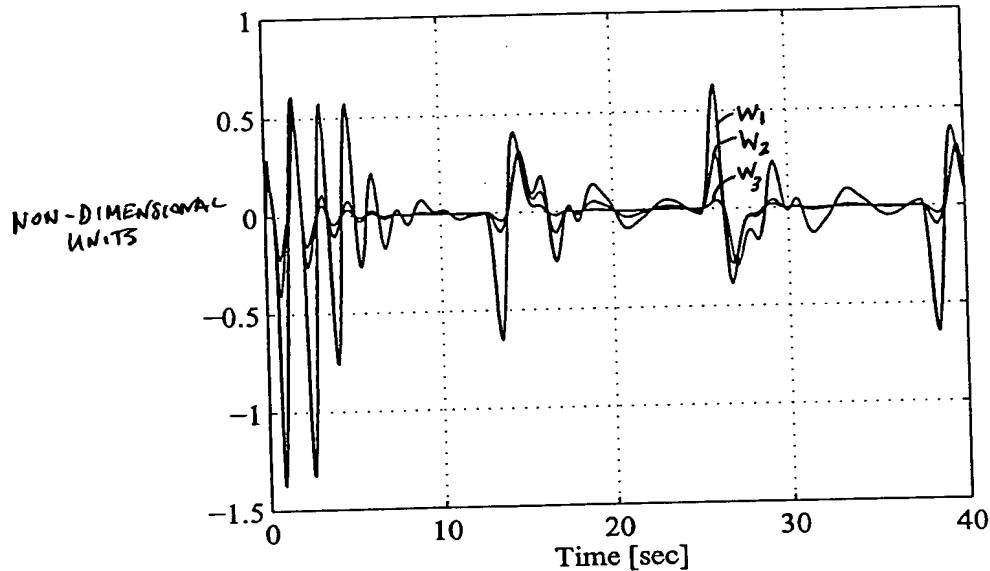
System with unmodelled dynamics: response with NN controller

FIGURE 10A



(a) System tracking

FIGURE 10B



(b) NN weight history

System with unmodelled dynamics: response with NN controller and linear compensator